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July 11, 1969

U. S. Government

Attention: Ray S.

Subject: Control #02228 Status Report for
Period Ending June 30, 1969

Gentlemen:

During this report period the following tasks have been performed.

1. The High Power Stereo Comparator Head was hand delivered by a representative of the [redacted] on June 30, 1969. Tests made that day indicated that the Stereo Comparator Head was within specification. However, modification of the Stereo Comparator Head cannot be started until after the customer's technical representative and the [redacted] have mutually agreed on the performance characteristics of the Stereo Comparator Head. This is necessary because final acceptance of the modified stereo viewer requires that its optical quality be no less than 85% of the unmodified viewer.
2. Early in this report period the production department finished making the individual components for all detail drawings previously submitted for completed designs.
3. Surface finishes have been applied to all components manufactured prior to, and during this report period.
4. The instrument console was finish painted.
5. The precision lead screw and nut assemblies for the left-hand X and Y coordinate stage motions were completed and made ready for installation.
6. The gear teeth were cut on the second rotary table and a manganese phosphate finish applied to both rotary tables.

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7. The following assembly tasks were accomplished.

- a. The castors and leveling type vibration isolators were attached to the instrument console.
- b. Attached the base casting for the twin stage comparator to the top surface of the instrument console.
- c. Scraped the overarm casting to fit its mounting pad on the instrument base casting.
- d. Fitted support bearings and guide shoes on both sets of X and Y coordinate stages and mounted the stages in place on the base casting.
- e. Completed initial scraping and lapping operations on the guiding ways for both sets of X and Y coordinate stage motions.
- f. Secured both sets of X and Y coordinate precision lead screw assemblies in their respective positions on the twin stage comparator.
- g. Assembled the motor drive and shaft encoder units for both sets of X and Y coordinate stage motions. These units were then coupled to the individual precision lead screw assemblies previously attached to the twin stage comparator.
- h. The rotary table bearing in the top surface of each Y coordinate stage was scraped to accept the rotary table.
- i. The drive motion employed to rotate and set each of the individual rotary tables was installed and gear teeth lapped to obtain a smooth motion.
- j. The illumination system for the stereo viewer was assembled and installed in the instrument console.
- k. Mounted the instrument controls on the top surface of the console. This includes the joystick assembly utilized to control the motor drives for the individual stage motions.

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STAT With the exception of the modifications required by the []
[] Stereo Comparator Head, it is estimated that 90% of the twin stage
comparator is presently manufactured and assembled.

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STAT The [] received written notification from the
Contracting Officer early in this report period that its request for an ex-
tension of the contract date and a partial payment had been approved. It is
understood that partial payment for work already completed will be contin-
gent upon presentation of proper documentation to the customer.

It is estimated that approximately 62% of the work on the twin stage
comparator contract has been completed as of this report period.

During the July report period the [] plans to
do the following work.

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1. During the technical representatives planned visit of July 1 and 2, 1969, the [] Stereo Comparator Head will be tested so he and the [] may come to some mutual agreement on its performance characteristics.
 2. Start a preliminary layout of the stereo viewing system to determine and evaluate the steps required to modify the unit delivered by []
 3. Receive the digital control system and the power supply for the joystick controlled motor drive assemblies utilized for the X and Y coordinate stage comparator.
 4. Install the wiring harnesses in the instrument console and connect to it all console mounted electrical components.
 5. Make all electrical interconnections between the instrument console and the rack mounted digital control system and motor drive power supply chassis.
 6. Complete final lapping operations on the guiding ways for the X and Y coordinate stage motions.
 7. Manufacture and install the electrical safety limit switch assemblies. These units are designed to prevent the stages from inadvertently being traversed beyond their designed limits of travel.
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8. Test all completed subsystems on the twin stage comparator for performance.

A Status of Funds statement will be found on the following page.

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Very truly yours,

A rectangular box with a black border, used to redact the signature of the Asst. Manager, Engineering.

Asst. Manager, Engineering

HBB:pc

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